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10/751,333	01/02/2004	Sekhar Sarukkai	21756-015100	7608

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EXAMINER

DAO, THUY CHAN

ART UNIT	PAPER NUMBER
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2192

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08/02/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

44

Office Action Summary	Application No. 10/751,333	Applicant(s) SARUKKAI ET AL.	
	Examiner Thuy Dao	Art Unit 2192	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05/14/07.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is responsive to the amendment filed on May 14, 2007.
2. Claims 1-21 have been examined.

Response to Amendments

3. Per Applicants' request, claims 1, 9, and 11 have been amended.

Response to Arguments

4. The Applicants are thanked for a thorough reply. Applicant's arguments filed May 14, 2007, with respect to the rejections of claims 1-21 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of US Patent Publication No. 2004/0040014 A1 to Ball.

Claim Objection

5. Claims 7 and 15 are objected to because of minor informalities: the phrases are considered to read as - -component [[registry]] repository - - as previously recited in independent claims 1 and 10, respectively.

Appropriate correction is required.

Claim Rejections – 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent Publication No. 2004/0040014 A1 to Ball (art made of record, hereinafter "Ball").

Claim 1:

Ball discloses a method, system, and computer program product *for integrating run-time metrics into an integrated development environment (IDE), the IDE including a runtime environment and a user interface environment, the method comprising:*

determining an application component to be monitored in the IDE, the application component having associated information in a component repository of the IDE runtime environment (e.g., FIG. 4, class, constructors, methods as application components, [0034-0036]);

wherein the component repository is configured to provide a list of components that are available to be invoked by the IDE runtime environment (e.g., FIG. 4, FileSystem Explorer as the component repository, class Scanner currently invoked by the IDE, [0035-0036]);

monitoring the application component in the IDE runtime environment to determine a plurality of metrics associated with the application component (e.g., FIG. 5-6, [0036-0039]);

transmitting the plurality of metrics to a data collector of the IDE user interface; and displaying the metrics to a user of the IDE (e.g., FIG. 7, [0040-0042]; FIG. 3, [0030-0032]).

Claim 2:

The rejection of claims 2 is incorporated. Ball also discloses *providing, to the user of the IDE, an alert notifying the user of an error condition generated by the application component in production (e.g., [0010-0011]).*

Claim 3:

The rejection of claims 2 is incorporated. Ball also discloses *providing an alert comprises displaying, for the user, a list of alerts generated since a last login by the user* (e.g., [0012-0013]).

Claim 4:

The rejection of claims 2 is incorporated. Ball also discloses *providing an alert comprises sending an alphanumeric page to the user* (e.g., [0016-0017]).

Claim 5:

The rejection of claims 1 is incorporated. Ball also discloses *providing a policy manager in the IDE to allow the user to specify an operational concern for the application component; communicating the specified operational concern to a policy agent in the IDE runtime environment; and enforcing the operational concern with the policy agent during operation of the application component* (e.g., FIG. 5, [0036-0038]).

Claim 6:

The rejection of claims 5 is incorporated. Ball also discloses *the operational concern is selected from the group consisting of a logging policy, an authentication policy, an encryption policy, and a caching policy* (e.g., [0009-0010]).

Claim 7:

The rejection of claims 1 is incorporated. Ball also discloses *allowing the user to create the application component in the IDE; and automatically registering the application component, when it has been created, with the component repository* (e.g., [0035]).

Claim 8:

The rejection of claims 7 is incorporated. Ball also discloses *determining an application component to be monitored comprises: providing, from the component repository, a list of application components that can be invoked; and allowing the user of*

the IDE to specify an application component to be opened in the IDE runtime environment (e.g., FIG. 4, [0035]).

Claim 9:

Claim 9 is a computer program version, which recites the same limitations as those of claim 1, wherein all claimed limitations have been addressed and/or set forth above. Therefore, as the reference teaches all of the limitations of the above claim, it also teaches all of the limitations of claim 9.

Claim 10:

Ball discloses *a computer system comprising a processor and a computer readable medium, the computer readable medium having stored thereon a computer program executable by the processor, the computer program comprising:*

a component repository configured to maintain a list of available application components that can be invoked by an integrated development environment (IDE) runtime environment (e.g., FIG. 4, FileSystem Explorer, [0035-0036]);

an IDE runtime environment configured to open an application component and monitor operation of the application component to determine a plurality of metrics associated with the application component (e.g., FIG. 4, class, constructors, methods, [0034-0035]); and

an IDE user interface configured to allow a user to perform software development tasks, the IDE user interface comprising:

an instrumentor in communication with the IDE runtime environment, the instrumentor being configured to allow a user to control operation of the IDE runtime environment (e.g., FIG. 5-6, [0036-0039]); and

a data collector in configuration with the IDE runtime environment, the data collector being configured to display at least some of the plurality of metrics associated with the application component (e.g., FIG. 7, [0040-0042]; FIG. 3, [0030-0032]).

Claim 11:

The rejection of claims 10 is incorporated. Ball also discloses *the IDE runtime environment comprises the component repository* (e.g., [0032-0034]).

Claim 12:

The rejection of claims 10 is incorporated. Ball also discloses *the IDE user interface comprises a monitor, and wherein the monitor comprises the instrumentor and the data collector* (e.g., [0028-0030]).

Claim 13:

The rejection of claims 11 is incorporated. Ball also discloses *the IDE user interface further comprises a policy manager configured to allow the user to specify an operational concern for the application component, and wherein the IDE runtime environment comprises a policy agent in communication with the policy manager, the policy agent being configured to receive the operational concern from the policy agent and enforce the operational concern during operation of the application component* (e.g., [0033-0035]).

Claim 14:

The rejection of claims 10 is incorporated. Ball also discloses *the IDE runtime environment comprises: a listener in communication with the instrumentor, the listener being configured to receive instructions from the instrumentor for controlling operation of the IDE runtime environment; and a sender in communication with the data collector, the sender being configured to translate events generated by the operation of the application component into messages, and to send the messages to the data collector* (e.g., FIG. 5-6, [0036-0038]).

Claim 15:

The rejection of claims 10 is incorporated. Ball also discloses *allow the user to create an application component in the IDE user interface; and automatically register*

the application component, when it has been created, with the component repository (e.g., [0035-0036]).

Claim 16:

The rejection of claims 10 is incorporated. Ball also discloses *the instrumentor is configured to allow a user to control operation of the IDE runtime environment by specifying a particular application component that should be monitored (e.g., [0036-0038]).*

Claim 17:

The rejection of claims 10 is incorporated. Ball also discloses *the instrumentor is configured to allow a user to control operation of the IDE runtime environment by setting a context for the application component to be monitored (e.g., FIG. 5-6, [0036-0038]).*

Claim 18:

The rejection of claims 17 is incorporated. Ball also discloses *the metrics displayed by the data collector are related to the context specified by the instrumentor (e.g., [0037-0039]).*

Claim 19:

The rejection of claims 10 is incorporated. Ball also discloses *the IDE runtime environment is configured to monitor application components in a production environment (e.g., [0029-0030]).*

Claim 20:

The rejection of claims 19 is incorporated. Ball also discloses *the component repository is configured to maintain a list of available application components that can be invoked either in the production environment or in a development environment (e.g., [0004-0009]).*

Claim 21:

The rejection of claims 10 is incorporated. Ball also discloses *the IDE user interface communicates with the IDE runtime environment using one or more protocols selected from the group consisting of the simple object access protocol ("SOAP"), the java message service, and remote method invocation (e.g., [0007-0010])*.

Conclusion

8. Any inquiry concerning this communication should be directed to examiner Thuy Dao (Twee), whose telephone is (571) 272 8570. The examiner can normally be reached on Tuesday, Thursday, and Friday from 6:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam, can be reached at (571) 272 3695.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273 8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is (571) 272 2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T. Dao



TUAN DAM
SUPERVISORY PATENT EXAMINER